

Using Semantic MediaWiki For Managing Quizzes For Knowledge Examination And Evaluation

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SMW for managing quizzes

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Who Am I



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my dog

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Agenda



- How we use SMW with Quizzes
- Interactive Example
- How it works
- Questions/Discussion

If you'd like to explore the details of what's shown here you might want to login in at

<http://smwquiz.bitplan.com>

- user: smwcon2016 password: frankfurt

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How We Use SMW With Quizzes



BITPlan teaches

- Software architecture foundation level according to the [CPSA-F syllabus](#)
- Software architecture advanced level according to [CPSA-A syllabi](#)
- Software requirements management foundation level according to the [CPRE-FL syllabus](#)
- Software requirements advanced level according to [CPRE-AL syllabi](#)

After these courses there is mostly an exam based on the syllabi. The training, syllabus definition and exam execution are done by different independent organizations. We give our participants access to a SMW wiki with exam



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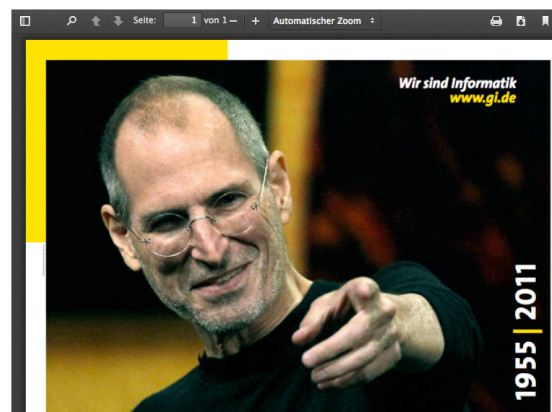
Effects Of The Quiz-Wikis



- improved success quota - BITPlan participants regularly end up in the yearly toplist
- more fun for participants - actively working with the wiki is more fun than listening to theory
- wider coverage of topics - details are linked e.g. Pioneers of SoftwareEngineering
- personalization of training effort and speed - some people need more preparation than others

Steve Jobs

SWPioneer	
picture	
for	Smartphone
wikipediaurl	https://en.wikipedia.org/wiki/Steve_Jobs
amazonurl	
references	



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<http://smwquiz.bitplan.com>

1. the Mediawiki Quiz extension
2. managing Quizzes with SMW
3. Quizzes in the context of a Syllabus using the Profiwiki approach
4. generating Quizsets with the Profiwiki approach

The Quiz extension

- <https://www.mediawiki.org/wiki/Extension:Quiz>
- <https://en.wikiversity.org/wiki/Help:Quiz>

is used by Wikiversity

- https://en.wikiversity.org/wiki/Wikiversity:Main_Page
- https://de.wikiversity.org/wiki/Wikiversity:Main_Page


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Managing Quizzes With SMW



What is the keyword being used for queries in SMW?

10	<p>Welches Schlüsselwort wird für Abfragen in SMW benutzt?</p> <p>What Keyword is being used for queries in SMW?</p> 	
	<p>A. find</p> <p>B. select</p> <p>C. query</p> <p>D. ask</p> <p>E. explore</p>	<p>A. select</p> <p>B. query</p> <p>C. ask</p> <p>D. explore</p>

Concept: Quizkarte

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Syllabus Context



From the **Syllabus** context the necessary SMW pages are generated with **Profiwiki**

	Targets	Category	Concept	Form	Help	List of	Template	Properties	Java
Topics 	<input type="checkbox"/>								
Syllabus 	<input checked="" type="checkbox"/>	Category:Syllabus	Concept:Syllabus	Form:Syllabus	Help:Syllabus	List_of_Syllabi	Template:Syllabus	Concept:Syllabus/Properties	Concept:Syllabus/Java
SyllabusChapter 	<input type="checkbox"/>	Category:SyllabusChapter	Concept:SyllabusChapter	Form:SyllabusChapter	Help:SyllabusChapter	List_of_SyllabusChapters	Template:SyllabusChapter	Concept:SyllabusChapter/Properties	Concept:SyllabusChapter/Java
LearningGoal 	<input type="checkbox"/>	Category:LearningGoal	Concept:LearningGoal	Form:LearningGoal	Help:LearningGoal	List_of_LearningGoals	Template:LearningGoal	Concept:LearningGoal/Properties	Concept:LearningGoal/Java
LearnItem 	<input type="checkbox"/>	Category:LearnItem	Concept:LearnItem	Form:LearnItem	Help:LearnItem	List_of_LearnItems	Template:LearnItem	Concept:LearnItem/Properties	Concept:LearnItem/Java
GlossaryEntry Glt 	<input type="checkbox"/>	Category:GlossaryEntry	Concept:GlossaryEntry	Form:GlossaryEntry	Help:GlossaryEntry	List_of_GlossaryEntries	Template:GlossaryEntry	Concept:GlossaryEntry/Properties	Concept:GlossaryEntry/Java
Reference 	<input type="checkbox"/>	Category:Reference	Concept:Reference	Form:Reference	Help:Reference	List_of_References	Template:Reference	Concept:Reference/Properties	Concept:Reference/Java
DeltaComment 	<input type="checkbox"/>	Category:DeltaComment	Concept:DeltaComment	Form:DeltaComment	Help:DeltaComment	List_of_DeltaComments	Template:DeltaComment	Concept:DeltaComment/Properties	Concept:DeltaComment/Java

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Generating Quizsets With The Profiwiki Approach

QuizGenerator

QuizGenerator

Action	
name	Quiz by Prefix Generator
servicetype	WikiTask
service	
inputtype	Page
input	none
actionpage	QuizGenerator#template
output	QuizGenerator/Quiz
engine	rythm
author	Wf
since	2015/11/22
comment	

 login  reset  runtemplate -> QuizGenerator/Quiz

```
@{
    // shuffle all quizcards
    List<Quizkarte> shuffled=new ArrayList<Quizkarte>();
    shuffled.addAll(qm.getQuizkarten());
    Collections.shuffle(shuffled);
    int quizSize=10;
    // how many quizzes do we have?
    int quizCount=shuffled.size()/quizSize;
}
Generating @(quizCount) quizzes from @(shuffled.size()) Quiz cards
@for (int quizNo=0;quizNo<quizCount;quizNo++) {
    @
    List<Quizkarte> qcs=new ArrayList<Quizkarte>();
    for (int i=0;i<quizSize;i++) {
        qcs.add(shuffled.get(quizNo*quizSize+i));
    }
    String langs[]={ "de", "en" };
    String quizName=String.format("Quiz%02d",quizNo+10);
}
```

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